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Approved for use through 09/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL <small>(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))</small>	Attorney Docket No.	106747-118 DV US CN1
	First Inventor or Application Identifier	Kenneth J. Southwick
	Title	Collider Chamber Apparatus and Method of Use of Same
	Express Mail Label No.	EM259583474US

APPLICATION ELEMENTS <small>See MPEP chapter 600 concerning utility patent application contents.</small>		ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231	
1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original and a duplicate for fee processing)</small>	5. <input type="checkbox"/> Microfiche Computer Program (Appendix)	ACCOMPANYING APPLICATION PARTS 7. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 8. <input type="checkbox"/> 37 C.F.R. § 3.73(b) Statement <input checked="" type="checkbox"/> Power of Attorney ** <small>(when there is an assignee)</small> 9. <input type="checkbox"/> English Translation Document (if applicable) 10. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations 11. <input checked="" type="checkbox"/> Preliminary Amendment 12. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) <small>(Should be specifically itemized)</small> 13. <input type="checkbox"/> Small Entity Statement(s) <input checked="" type="checkbox"/> Statement filed in prior application, Status still proper and desired (PTO/SB/09-12) 14. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 15. <input type="checkbox"/> Other: _____ ** copy from prior application	
2. <input checked="" type="checkbox"/> Specification [Total Pages 28] <small>(preferred arrangement set forth below)</small> - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D - Reference to Microfiche Appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure	6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement verifying identity of above copies		
3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 11]			
4. Oath or Declaration [Total Pages 4] a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d)) <small>(for continuation/divisional with Box 16 completed)</small> i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).			
NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).			

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:
☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: 09, 354,413
 Prior application information: Examiner Varcos Jr., F Group / Art Unit: 1764
For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label ☐ Correspondence address below
(Insert Customer No. or Attach bar code label here)

Name	Richard A. Goldenberg, Esq.		
	Hale and Dorr LLP		
Address	60 State Street		
City	Boston	State	MA
		Zip Code	02109
Country	US	Telephone	617 526-6548
		Fax	617 526-5000

Name (Print/Type)	Richard A. Goldenberg	Registration No. (Attorney/Agent)	38,895
Signature	<i>Richard A. Goldenberg</i>	Date	June 8, 2000

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

FEE TRANSMITTAL for FY 2000

Patent fees are subject to annual revision.
Small Entity payments must be supported by a small entity statement,
otherwise large entity fees must be paid. See Forms PTO/SB/09-12.
See 37 C.F.R. §§ 1.27 and 1.28.

TOTAL AMOUNT OF PAYMENT (\$ 345.00

Complete if Known

Application Number	TBA
Filing Date	Herewith
First Named Inventor	Kenneth J. Southwick
Examiner Name	Varcoe, Jr., F.(prior appln
Group / Art Unit	1764 (prior appln)
Attorney Docket No.	106747-118 DV US CN1

METHOD OF PAYMENT (check one)

1. ☒ The Commissioner is hereby authorized to charge
Indicated fees and credit any overpayments to:

Deposit Account Number 08-0219

Deposit Account Name Hale and Dorr LLP

- ☒ Charge Any Additional Fee Required
Under 37 CFR §§ 1.16 and 1.17

2. ☐ Payment Enclosed:
☐ Check ☐ Money Order ☐ Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 690	201 345	Utility filing fee	345.00
106 310	206 155	Design filing fee	
107 480	207 240	Plant filing fee	
108 690	208 345	Reissue filing fee	
114 150	214 75	Provisional filing fee	

SUBTOTAL (1) (\$ 345.00

2. EXTRA CLAIM FEES

	Extra Claims	Fee from below	Fee Paid
Total Claims	-20** =	X	
Independent Claims	-3** =	X	
Multiple Dependent			

**or number previously paid, if greater; For Reissues, see below

Large Entity Small Entity

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
103 18	203 9	Claims in excess of 20	
102 78	202 39	Independent claims in excess of 3	
104 260	204 130	Multiple dependent claim, if not paid	
109 78	209 39	** Reissue independent claims over original patent	
110 18	210 9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$ -0-

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 380	216 190	Extension for reply within second month	
117 870	217 435	Extension for reply within third month	
118 1,360	218 680	Extension for reply within fourth month	
128 1,850	228 925	Extension for reply within fifth month	
119 300	219 150	Notice of Appeal	
120 300	220 150	Filing a brief in support of an appeal	
121 260	221 130	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,210	241 605	Petition to revive - unintentional	
142 1,210	242 605	Utility issue fee (or reissue)	
143 430	243 215	Design issue fee	
144 580	244 290	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Petitions related to provisional applications	
126 240	126 240	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 690	246 345	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 690	249 345	For each additional invention to be examined (37 CFR § 1.129(b))	

Other fee (specify) _____

Other fee (specify) _____

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ -0-

SUBMITTED BY

Name (Print/Type)	Richard A. Goldenberg	Registration No. (Attorney/Agent)	38,895	Complete (if applicable)	
Signature	<i>Richard A. Goldenberg</i>	Telephone	617 526-6548	Date	June 8, 2000

WARNING:

Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

EXPRESS MAIL LABEL NO. EM259583474US

DATE OF DEPOSIT JUNE 8, 2000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No. 106747-118 DV US CN1

Applicant: Kenneth J. Southwick

Serial No. TBA (Con. of U.S.S.N. 09/354,413 filed July 15, 1999 which is a Div. of U.S.S.N. 09/090,121 filed June 4, 1998)

Filed: Herewith

Title: COLLIDER CHAMBER APPARATUS AND METHOD OF USE OF SAME

EXPRESS MAIL CERTIFICATION UNDER 37 CFR §1.10

I hereby certify that this Transmittal Letter is being deposited with the United States Postal Service on this 8th day of June, 2000, in an envelope as "Express Mail Post Office to Addressee" Mailing Label No. EM259583474US addressed to the: Assistant Commissioner of Patents, BOX PATENT APPLICATION, Washington, DC 20231.


Laura E. Blacker

Box PATENT APPLICATION
Assistant Commissioner for Patents
Washington, D.C. 20231

TRANSMITTAL LETTER

Sir:

- - Attached hereto for the appropriate action by the United States Patent and Trademark Office in connection with the above-identified matter are the following documents:

1. **Utility Patent Application Transmittal under 37 C.F.R. § 1.53(b), including;**

Original Patent Application
comprising: 22 pages of Specification, 5 pages of Claims,
1 page of Abstract, and 11 sheets of Informal Drawings (Figs. 1, 1a, 2-13)

"Express Mail" Mailing Label No. EM259583474US
Date of Deposit: June 8, 2000

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INVENTOR: Kenneth J. Southwick

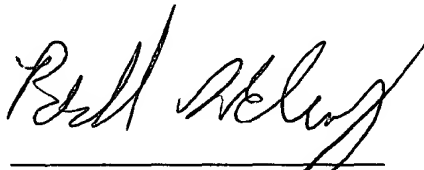
Serial No. TBA (Con. of U.S. Pat. N. 09/354,413 filed July 15, 1999 which is a Div. of U.S. Pat. N. 09/090,121 filed June 4, 1998)

Page 2

2. **Copy of Executed Combined Declaration and Power of Attorney from prior application;**
3. **Copy of Executed Verified Statement Claiming Small Entity Status - Independent Inventor from prior application;**
4. **Preliminary Amendment;**
5. **Fee Transmittal (*in duplicate*); and,**
6. **Return postcard.**

Please charge any fee deficiency or credit any overpayment to Deposit Account No. 08-0219.

Respectfully submitted,



Richard A. Goldenberg
Registration No. 38,895
Attorney for Applicant

Date: June 8, 2000

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Boston, Massachusetts 02109
Tel: (617) 526-6548

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Date of Deposit: June 8, 2000